



1999 Toxics Release Inventory

PUERTO RICO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	5,831,645	11,708,082	17,539,727
Air Emissions	5,757,260	11,531,816	17,289,076
Surface Water Discharges	70,474	10,310	80,784
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	250	0	250
Other On-site Land Releases	3,661	165,956	169,617
Off-site Releases (Transfers Off-site to Disposal)*	492,841	140,137	632,978
Total On- and Off-site Releases	6,324,486	11,848,219	18,172,705
Recycled On-site	13,660,194	1,465,156	15,125,350
Recycled Off-site	10,663,327	1,099,765	11,763,092
Energy Recovery On-site	54,091	0	54,091
Energy Recovery Off-site	18,218,540	11,403,532	29,622,072
Treated On-site	26,556,033	1,763,772	28,319,805
Treated Off-site**	10,539,593	1,643,375	12,182,968
Quantity Released On- and Off-site***	6,255,204	11,785,321	18,040,525
Total Production-related Waste Managed	85,946,982	29,160,921	115,107,903
Total Non-production-related Waste Managed	6,491	158	6,649

Transfers Off-site for Further Waste Management/Disposal

Recycling	14,842,397	3,269,788	18,112,185
Energy Recovery	18,019,219	8,688,413	26,707,632
Treatment	11,399,077	1,482,247	12,881,324
Publicly Owned Treatment Works (POTWs)	1,930,420	12,554	1,942,974
Metals and Metal Compounds*	2,351	0	2,351
Non-metal TRI Chemicals**	1,928,069	12,554	1,940,623
Other Off-site Transfers***	0	553,773	553,773
Off-site Transfers to Disposal (not including metals to POTWs)	496,484	150,694	647,178
Total Transfers Off-site for Further Waste Management/Disposal	46,687,597	14,157,469	60,845,066

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

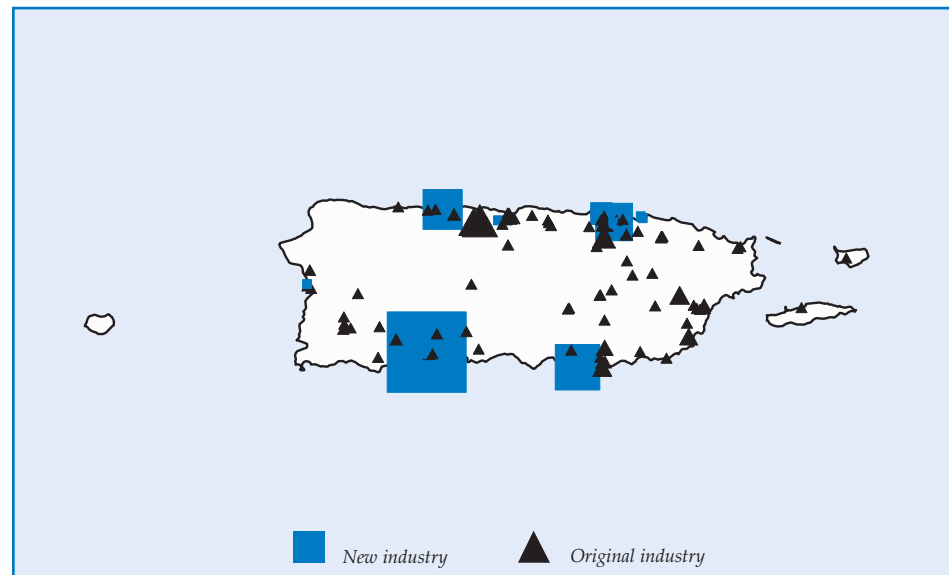
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To obtain TRI data use
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(202) 260-1531
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The largest marker in the state map represents the largest facility for on-site releases in Puerto Rico. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

State/TRI Data

Population	3,889,507
Square Miles	3,427
Total Facilities	153
Total Forms	498
Form As	87

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	42	35	42
Pounds	6,324,486	11,848,219	18,172,705
National Rank for Total On-site Releases**			
Rank	40	34	41
Pounds	5,831,645	11,708,082	17,539,727
National Rank for Total Releases within State***			
Rank	41	35	42
Pounds	6,191,882	11,780,073	17,971,955
National Rank for Production-related Waste Managed			
Rank	37	32	40
Pounds	85,946,982	29,160,921	115,107,903

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-09-2	Dichloromethane	2,271,514	0	0	0	0	2,271,514	0	0	0
108-88-3	Toluene	880,606	22	0	0	15	880,643	0	15	0
67-56-1	Methanol	612,160	0	0	0	370	612,530	0	0	370
71-36-3	n-Butyl alcohol	414,849	0	0	0	0	414,849	0	0	0
110-54-3	n-Hexane	270,175	37	0	0	0	270,212	0	0	0
78-93-3	Methyl ethyl ketone	208,097	0	0	0	0	208,097	0	0	0
--	Zinc compounds	2,197	380	0	3,624	165,382	171,583	0	159,882	5,500
110-82-7	Cyclohexane	115,124	1	0	0	1	115,126	0	1	0
75-05-8	Acetonitrile	111,727	0	0	0	0	111,727	0	0	0
67-66-3	Chloroform	111,067	0	0	0	0	111,067	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	9,417,297	0	0	0	0	9,417,297	0	0	0
7664-41-7	Ammonia	1,890,655	0	0	0	0	1,890,655	0	0	0
--	Nickel compounds	134,283	2,571	0	163,750	68,991	369,595	0	68,991	0
7440-66-6	Zinc (fume or dust)	29,323	7,739	0	2,206	0	39,268	0	0	0
71-36-3	n-Butyl alcohol	0	0	0	0	32,446	32,446	0	0	32,446
110-86-1	Pyridine	0	0	0	0	28,974	28,974	0	0	28,974
1634-04-4	Methyl tert-butyl ether	13,925	0	0	0	500	14,425	0	500	0
108-05-4	Vinyl acetate	10,598	0	0	0	0	10,598	0	0	0
--	Copper compounds	0	0	0	0	10,484	10,484	0	0	10,484
110-54-3	n-Hexane	7,227	0	0	0	500	7,727	0	500	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Abbott Health Prods. Inc., Barceloneta, Barceloneta	1,267,029	0	0	0	0	0	1,267,029	0	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	992,350	0	0	0	0	0	992,350	0	0
Coatings Inc. & Co., Bayamon, Bayamon	630,272	0	0	0	0	0	630,272	0	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	444,064	0	0	0	0	0	444,064	0	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	406,370	68	0	0	0	0	406,438	447	0
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	306,752	69,502	0	0	0	0	376,254	0	5
Chemsource Corp., Guayama, Guayama	303,517	0	0	0	0	0	303,517	0	0
Caribbean Petroleum Refining Ltd. Ptnr., Bayamon, Bayamon	191,699	831	0	0	0	0	192,530	0	0
Schering-Plough Prods. L.L.C., Manati, Manati	160,240	0	0	0	0	0	160,240	0	0
Squibb Mfg. Inc., Humacao, Humacao	137,705	0	0	0	0	0	137,705	222	5,500

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Prepa - South Coast Power Plant, Guayanilla, Guayanilla	4,488,564	1,290	0	0	0	131,844	4,621,698	0	0
Prepa - Aguirre Power Generation Complex, Salinas, Salinas	2,314,206	8,048	0	0	0	34,112	2,356,366	0	0
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	1,997,379	0	0	0	0	0	1,997,379	0	0
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	1,845,329	955	0	0	0	0	1,846,284	38,662	0
Prepa - Palo Seco Power Plant, Levittown, Toa Baja	828,600	17	0	0	0	0	828,617	30,329	0
Esso Cataqo Bulk Terminal, Guaynabo, Guaynabo	17,187	0	0	0	0	0	17,187	1,500	0
Union Carbide Caribe L.L.C. Ponce Terminal, Penuelas, Penuelas	10,598	0	0	0	0	0	10,598	0	0
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	9,895	0	0	0	0	0	9,895	0	78,703
Shell Co. (PR) Ltd., Guaynabo, Guaynabo	5,704	0	0	0	0	0	5,704	0	0
Esso LMM Airport Plant, Carolina, San Juan	4,861	0	0	0	0	0	4,861	1,500	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Abbott Health Prods. Inc., Barceloneta, Barceloneta	9,144,709	0	0	2,913,384	4,132,092	210,165	1,277,869	17,678,219	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	0	3,229,458	0	2,462,849	0	707,710	984,335	7,384,352	0
Coatings Inc. & Co., Bayamon, Bayamon	776,688	0	0	0	862,986	0	630,272	2,269,946	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	0	785,661	0	146,012	0	0	444,064	1,375,737	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	540,413	0	48,476	133	242,919	0	406,885	1,238,826	2,855
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	0	0	0	0	5,297,937	0	376,261	5,674,198	0
Chemsource Corp., Guayama, Guayama	248,867	0	0	0	875,468	194,489	266,569	1,585,393	1
Caribbean Petroleum Refining Ltd. Ptnr., Bayamon, Bayamon	19,778	0	0	0	25,272	0	192,263	237,313	0
Viasystems Puerto Rico Inc., San German, San German	150,587	283,216	0	110,880	66,087	118,826	169,653	899,249	0
Schering-Plough Prods. L.L.C., Manati, Manati	0	374,810	0	1,392,250	0	972,590	160,240	2,899,890	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Prepa - South Coast Power Plant, Guayanilla, Guayanilla	0	0	0	0	0	0	4,620,990	4,620,990	0
Prepa - Aguirre Power Generation Complex, Salinas, Salinas	0	0	0	0	0	0	2,355,921	2,355,921	5
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	0	0	0	0	0	0	1,996,973	1,996,973	0
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	0	0	0	0	0	0	1,884,941	1,884,941	144
Prepa - Palo Seco Power Plant, Levittown, Toa Baja	0	0	0	0	0	0	858,517	858,517	5
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	1,465,156	1,099,765	0	11,401,702	1,708,772	1,643,119	20,260	17,338,774	0
Esso Cataño Bulk Terminal, Guaynabo, Guaynabo	0	0	0	0	0	0	17,134	17,134	1
Union Carbide Caribe L.L.C. Ponce Terminal, Penuelas, Penuelas	0	0	0	0	0	0	10,598	10,598	0
Shell Co. (PR) Ltd., Guaynabo, Guaynabo	0	0	0	0	0	0	5,704	5,704	0
Esso LMM Airport Plant, Carolina, San Juan	0	0	0	0	0	0	5,214	5,214	1

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.